

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PF-0712 PCT	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 00/16644	15/06/2000	17/06/1999
Applicant INCYTE GENOMICS, INC. et a	11.	
according to Article 18. A copy is being tran	•	nority and is transmitted to the applicant
	of a total of sheets. a copy of each prior art document cited in this	report.
language in which it was filed, unle	nternational search was carried out on the bases otherwise indicated under this item.	
the international search wa Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this
b. With regard to any nucleotide and was carried out on the basis of the solution of the internation filed together with the internation furnished subsequently to the internation furnished subsequently to the internation	sequence listing: nal application in written form. national application in computer readable form this Authority in written form. this Authority in computer readble form. sequently furnished written sequence listing do	,
	· ·	identical to the written sequence listing has been
 X Certain claims were found X Unity of invention is lacking 	d unsearchable (See Box I). ing (see Box II).	
4. With regard to the title, the text is approved as subrice the text has been established HUMAN RNA METABOLISM PR	ed by this Authority to read as follows:	
5. With regard to the abstract , X the text is approved as submitted that the text has been established within one month from the disconnection.	mitted by the applicant. ed, according to Rule 38.2(b), by this Authority late of mailing of this international search repo	v as it appears in Box III. The applicant may, ort, submit comments to this Authority.
6. The figure of the drawings to be publish as suggested by the applican because the applicant failed because this figure better ch	ant. d to suggest a figure.	None of the figures.

International Application No PCT/US 00/16644

A. CLASSIFICATION OF SUBJECT IPC 7 C12N15/12 C12Q1/68 C12N5/10 C07K16/18

C07K14/47 A61K38/00 C12N15700

A01K67/027

Relevant to claim No.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 CO7K

Category °

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Citation of document, with indication, where appropriate, of the relevant passages

STRAND, EPO-Internal, WPI Data, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

 			
NUCLEOT C. ELEG NATURE, vol. 36 3 March XP00202 / ISSN: 0	GB,MACMILLAN JOURNALS LTD 8, no. 6466, 1994 (1994-03-03), pages 9739 028-0836	OME III OF . LONDON,	1
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OLGA (U 4 June	3744 A (INCYTE PHARMA INC S); GOLI SURYA K (US)) 1998 (1998-06-04) le document	;BANDMAN	1
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X Further documents are li	sted in the continuation of box C.	X Patent family members are listed in	n annex.
 Special categories of cited doc 	uments:	"T" later document published after the inter	national filing date
"A" document defining the gene considered to be of particu	ral state of the art which is not lar relevance	or priority date and not in conflict with t cited to understand the principle or the	he application but ory underlying the
"E" earlier document but publish	and an ar after the interpolicant	invention "X" document of particular relevance; the cla	aimed invention
"L" document which may throw		cannot be considered novel or cannot involve an inventive step when the doc	ument is taken alone
citation or other special rea	ason (as specified)	"Y" document of particular relevance; the cli cannot be considered to involve an inv	entive step when the
"O" document referring to an ora other means		document is combined with one or mor ments, such combination being obviou	e other such docu- s to a person skilled
"P" document published prior to later than the priority date of		in the art. "&" document member of the same patent fa	amily
Date of the actual completion of	the international search	Date of mailing of the international sear	ch report
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Name and mailing address of the ISA

17 January 2001

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer

CHAMBONNET, F

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International Application No PCT/US 00/16644

C.(Continuation) DOCUMENTS CO ERED TO BE RELEVANT	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Category ° Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X EMBL ACCESSION NUMBER Q9Y2Z6; SEQUENCE CHARACTERISATION CGI-07 PROTEIN. Homo sapiens (Human). DT 01-NOV-1999 (TrEMBLrel. 12, Created) Lin WC.; "Comparative gene cloning: Identification of novel human genes with C. elegans proteome as template."; XP002157664 the whole document	1
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International application No. PCT/US 00/16644

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inter	rnational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: see further information sheet invention group1.
Remark o	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: partially 1-27

An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: a) an amino acid sequence consisting of SEQ ID NO:1, b) a naturally occuring amino acid sequence having at least 90% sequence identity to SEQ ID NO:1, c) a biologically active fragment of an amino acid sequence consisting in SEQ ID NO:1, d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:1; an isolated polynucleotide encoding said polypeptide or consisting of SEQ ID NO:14; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient; methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions;

2. Claims: partially 1-27

An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:

a) an amino acid sequence consisting of SEQ ID NO:2.

b) a naturally occuring amino acid sequence having at least 90% sequence identity to SEQ ID NO:2, c) a biologically active fragment of an amino acid sequence consisting in SEQ ID NO:2,

d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:2; an isolated polynucleotide encoding said polypeptide or consisting of SEQ ID NO:15; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient; methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions;

3. Claims: partially 1-27

An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: a) an amino acid sequence consisting of SEQ ID NO:3, b) a naturally occuring amino acid sequence having at least 90% sequence identity to SEQ ID NO:3, c) a biologically active fragment of an amino acid sequence consisting in SEQ ID NO:3, d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:3; an isolated polynucleotide encoding said polypeptide or consisting of SEQ ID NO:16; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient; methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions:

4. Claims: partially 1-27

An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:

a) an amino acid sequence consisting of SEQ ID NO:4,

b) a naturally occuring amino acid sequence having at least 90% sequence identity to SEQ ID NO:4,

c) a biologically active fragment of an amino acid sequence

consisting in SEQ ID NO:4,

d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:4; an isolated polynucleotide encoding said polypeptide or consisting of SEQ ID NO:17; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient; methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions;

5. Claims: partially 1-27

An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: a) an amino acid sequence consisting of SEQ ID NO:5, b) a naturally occuring amino acid sequence having at least 90% sequence identity to SEQ ID NO:5, c) a biologically active fragment of an amino acid sequence consisting in SEQ ID NO:5. d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:5; an isolated polynucleotide encoding said polypeptide or consisting of SEQ ID NO:18; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient; methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions:

6. Claims: partially 1-27

An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:

a) an amino acid sequence consisting of SEQ ID NO:6,

b) a naturally occurring amino acid sequence having at least 90% sequence identity to SEQ ID NO:6,

c) a biologically active fragment of an amino acid sequence

consisting in SEQ ID NO:6, d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:6; an isolated polynocleotide encoding said polypeptide or consisting of SEQ ID NO:19; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient; methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions;

7. Claims: partially 1-27

An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: a) an amino acid sequence consisting of SEO ID NO:1. b) a naturally occuring amino acid sequence having at least 90% sequence identity to SEQ ID NO:1, c) a biologically active fragment of an amino acid sequence consisting in SEQ ID NO:1, d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:1; an isolated polynucleotide encoding said polypeptide or consisting of SEQ ID NO:21; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient: methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions:

8. Claims: partially 1-27

An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:
a) an amino acid sequence consisting of SEQ ID NO:8,

b) a naturally occurring amino acid sequence having at least 90% sequence identity to SEQ ID NO:8.

c) a biologically active fragment of an amino acid sequence consisting in SEQ ID NO:8.

d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:8; an isolated polynucleotide encoding said polypeptide or consisting of SEQ ID NO:214; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient; methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions:

9. Claims: partially 1-27

An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: a) an amino acid sequence consisting of SEQ ID NO:9, b) a naturally occurring amino acid sequence having at least 90% sequence identity to SEQ ID NO:9, c) a biologically active fragment of an amino acid sequence consisting in SEQ ID NO:9, d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:9; an isolated polynucleotide encoding said polypeptide or consisting of SEQ ID NO:22; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient; methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions:

10. Claims: partially 1-27

An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: a) an amino acid sequence consisting of SEQ ID NO:10. b) a naturally occurring amino acid sequence having at least 90% sequence identity to SEQ ID NO:10, c) a biologically active fragment of an amino acid sequence consisting in SEQ ID NO:10, d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:10; an isolated polynucleotide encoding said polypeptide or consisting of SEQ ID NO:23; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient; methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions:

11. Claims: partially 1-27



An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: a) an amino acid sequence consisting of SEQ ID NO:11, b) a naturally occuring amino acid sequence having at least 90% sequence identity to SEQ ID NO:11, c) a biologically active fragment of an amino acid sequence consisting in SEQ ID NO:11, d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:11; an isolated polynucleotide encoding said polypeptide or consisting of SEQ ID NO:24; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient; methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions:

12. Claims: partially 1-27

An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: a) an amino acid sequence consisting of SEQ ID NO:12. b) a naturally occuring amino acid sequence having at least 90% sequence identity to SEQ ID NO:12, c) a biologically active fragment of an amino acid sequence consisting in SEQ ID NO:12, d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:12; an isolated polynucleotide encoding said polypeptide or consisting of SEQ ID NO:25; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient; methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions:

13. Claims: partially 1-27

An isolated polypeptide comprising an amino acid sequence

selected from the group consisting of: a) an amino acid sequence consisting of SEQ ID NO:13, b) a naturally occuring amino acid sequence having at least 90% sequence identity to SEQ ID NO:13. c) a biologically active fragment of an amino acid sequence consisting in SEQ ID NO:13, d) an immunogenic fragment of an amino acid sequence consisting in SEQ ID NO:13; an isolated polynucleotide encoding said polypeptide or consisting of SEQ ID NO:26; a cell transformed with such a recombinant polynucleotide; a transgenic organism comprising said recombinant polynucleotide; an isolated antibody which specifically bins to said polypeptide; an hybridization method for detecting a target said polynucleotide; a pharmaceutical composition comprising an effective amount of said polypeptide and a pharmaceutically acceptable excipient; methods for screening agonists, antagonists, binding compounds, of said polypeptide and pharmaceutical compositions comprising an effective amount thereof and a pharmaceutically acceptable

excipient; method for treating a disease or condition associated with an altered expression of said functional polypeptide using said pharmaceutical compositions;

Information on patent family members

International Application No PCT/US 00/16644

Patent document cited in search report

Publication date

Patent fall member(s)

Patent fall member(s)

Publication date

Publication date

Publication date

Publication date

Publication date